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of the
Medical Officer of Health
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P. W. MACLAGAN, M.D.
Medical Officer of Health

To the Mayor, Aldermen and Councillors
of the Borough of Berwick-upon-Tweed.

Mr. Mayor, Ladies and Gentlemen,

I have the honour to submit the Annual Report on the health and sanitary conditions of the Borough of Berwick-upon-Tweed for the year ended December, 1951.

The births this year numbered 239, giving a birth-rate of 19.18, compared with 247 and a rate of 20.15 for 1950. England and Wales was 15.5 for 1951.

Infantile mortality is 25.10 per 1,000 births, compared with 48.58 for the previous year. England and Wales 29.6.

The deaths numbered 167, giving a death-rate of 11.79 compared with 174 and a rate of 12.51 for 1950. The death-rate for England and Wales was 12.5.

The average age at death was 68 years 9 months, as compared with 71 years 6 months for 1950.

Of the total deaths (167), 117 or 70.06 per cent. were of persons over 65 years of age, compared with 65.53 per cent. for the previous year.

The death-rate is slightly below normal, and the birth-rate is below that of 1950.

It is interesting to record that since the inauguration of a scheme in 1940 for the immunisation of children against diphtheria very satisfactory results have been obtained.

In 1939, 61 cases were notified, and during the ensuing years this number has gradually diminished, and it is gratifying to note that no case of diphtheria has occurred in the Borough during the past three years.

I have much pleasure in acknowledging my indebtedness to all who so loyally co-operated in the work of the Public Health Services.

I have the honour to be,
Mr. Mayor, Ladies and Gentlemen,
Your obedient Servant,
P. W. MACLAGAN, M.D.,
Medical Officer of Health.

STAFF

Medical Officer of Health : P. W. MACLAGAN, M.D.

Sanitary Inspector : DOUGLAS S. HALLEY, M.R.San.I., M.S.I.A.

Additional Sanitary Inspector : ROY EMERSON, M.S.I.A.,

Clerk : Mr. JOHN JOHNSON,

Sections A. and F.

STATISTICS AND GENERAL CONDITIONS

General Statistics

Area—7,156 acres.

Population—1931 census, 12,299 (1921 census, 12,985).

R.G. est. mid-year, 1951—12,460.

No. of Inhabited Houses—3,981.

Rateable Value—£79,546 (as at 31st March, 1951).

Sum represented by 1d. rate—£312 do.

VITAL STATISTICS

Extracts from Vital Statistics

BIRTHS.

		Males	Females	Total	
	Legitimate	116	114	230	
	Illegitimate	5	4	9	
(Reg.-Gen.)	Totals	121	118	239	Rate 19.18

DEATHS.

			M.	F.	Total	Rate
(Registrar-General)	...	...	83	84	167	11.79

Number of Women dying in consequence of Child-birth—Nil.

Do. from Sepsis ... Nil.

Do. from other causes ... Nil.

Deaths of Infants under 1 year—

			Males	Females	Total	Per 1000
Legitimate	...	...	2	4	6	} 25.10
Illegitimate	...	...	—	—	—

Deaths from Measles (all ages)

Do. Whooping Cough

Do. Diphtheria

Do. Diarrhoea

Do. Scarlet Fever

Do. Tuberculosis (Pul.)

Do. do. (Non-Pul.)

—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—
4	—	4	0.282
—	—	—	—

Comparative Birth-Rates, Death Rates, Analysis of Maternal Mortality Death-Rates, and Case-Rates of certain Infectious Diseases

Rates per 1000 population.

Births—					No.	Berwick.	Eng. & Wales.
Live	...	...	...	...	239	19.18	15.5
Still	...	...	...	...	5	0.35	0.36

Deaths—							
All causes	...	...	...	...	167	11.79	12.5
Typhoid and Para. Fever	...	...	...	...	0	0.00	0.00
Smallpox	...	...	...	...	0	0.00	0.00
Whooping Cough	...	...	...	...	0	0.00	0.01
Diphtheria	...	...	...	...	0	0.00	0.00
Influenza	...	...	...	...	4	0.28	0.38
Meningococcal infections	...	...	...	...	0	0.00	0.00
Tuberculosis	...	...	...	...	4	0.28	0.31
Acute Polio. and Polio-enc.	...	...	...	...	0	0.00	0.00
Pneumonia	...	...	...	...	6	0.42	0.61

Notifications—							
Typhoid Fever	...	...	...	...	0	0.00	0.00
Paratyphoid Fever	...	...	...	...	0	0.00	0.02
Meningococcal Infections	...	...	...	...	0	0.00	0.03
Scarlet Fever	...	...	...	...	8	0.64	1.11
Whooping Cough	...	...	...	...	1	0.08	3.87
Diphtheria	...	...	...	...	0	0.00	0.02
Erysipelas	...	...	...	...	0	0.00	0.14
Smallpox	...	...	...	...	0	0.00	0.00
Measles	...	...	...	...	108	8.66	14.07
Pneumonia	...	...	...	...	1	0.08	0.99
Acute Poliomyelitis, Paralytic	...	...	...	...	0	0.00	0.03
Acute Polioencephalitis, Non- Paralytic	...	...	...	...	0	0.00	0.02
Food Poisoning	...	...	...	...	0	0.00	0.13
Dysentery	...	...	...	...	5	0.40	—

Rates per 1,000 Live Births—

Deaths under 1 year	...	...	...	...	6	25.10	29.6
Deaths from diarrhoea and en- teritis under 2 years...	...	...	...	...	0	0.00	1.14

Maternal Mortality rates (per 1,000 total births, i.e., live and still)—

Puerperal Sepsis	...	...	...	...	0	0.00	0.10
Others	...	...	...	...	0	0.00	0.69
Total	...	...	...	...	0	0.00	0.79

Notifications—

Puerperal Fever	0	0.00	} 10.66
Puerperal Pyrexia	0	0.00	

Population

The Registrar-General's estimation of the civilian population for mid-year 1951 is 12,460.

In this connection it is of interest to note that the Housing Survey completed in May, 1949, showed the resident civilian population in the Borough to be 12,455, divided as follows:—

Berwick	...	...	...	6,090
Tweedmouth	...	...	...	4,682
Spittal	...	...	...	1,683

For comparative purposes the following is included:—

Population (Census 1881)	...	...	...	13,961
" " 1891	...	...	...	13,362
" " 1901	...	...	...	13,437
" " 1911	...	...	...	13,075
" " 1921	...	...	...	12,985
" " 1931	...	...	...	12,299
Housing Survey 1936	...	...	...	12,243
Housing Survey 1949	...	...	...	12,455
R.G. estimate of mid-year 1949	...	...	...	12,250
R.G. estimate of mid-year 1950	...	...	...	12,370
R.G. estimate of mid-year 1951	...	...	...	12,460

Births

The births allocated to the Borough by the Registrar-General numbered 239, giving a birth-rate of 19.18. The equivalent figures for the previous year were 247 births, and a rate of 20.15, and the birth-rate for England and Wales was 15.5.

The birth-rate is calculated on a population of 12,460, modified by a comparability factor.

There were 9 illegitimate births (5 males and 4 females) in the total of 239.

The distribution of births was as follows:—

	Boys	Girls	Total
Berwick	47	41	88
Tweedmouth	40	40	80
Spittal	15	10	25
Inwards and others...	19	27	46
	121	118	239

Compared with the previous year the township of Berwick shews 6 less births, Tweedmouth 5 less, Spittal 1 more, and inwards 2 more.

Deaths

The number of deaths belonging to the Borough is 167, giving a death rate of 11.79, compared with 174 deaths and a rate of 12.51 for the previous year.

The death rate for 1951 is calculated on a population of 12,460, and is modified by a standardising factor to correct the death rate on account of the age and sex constitution of our population.

The distribution of the deaths was as follows :—

	Males	Females	Total
Berwick	37	51	88
Tweedmouth ...	28	22	50
Spittal	12	5	17
Inward Transfers...	6	6	12
Total for Borough	83	84	167

Ages at Death

The tables of ages at death is shewn with the percentage of total deaths at the various age periods, compared with the previous 4 years.

Ages.	No. of deaths.			Percentage of total deaths.				
	M.	F.	Total	1951	1950	1949	1948	1947
Under 1	2	4	6	3.59	6.89	0.58	4.11	5.99
1-5	—	—	—	0.00	0.58	0.00	0.00	0.00
5-15	—	—	—	0.00	1.14	1.16	0.68	2.40
15-25	2	—	2	1.19	2.29	2.93	0.00	1.79
25-45	5	4	9	5.39	5.18	3.50	5.48	5.39
45-60	15	9	24	14.38	10.35	11.69	11.64	13.77
60-65	7	2	9	5.39	8.05	10.53	7.53	7.18
65-70	17	12	29	17.37	10.92	11.69	14.38	14.98
70-80	23	30	53	31.74	34.49	33.93	35.62	25.14
80-90	9	21	30	17.96	17.82	22.23	17.82	18.56
90 up	3	2	5	2.99	2.29	1.76	2.74	4.80
	83	84	167	100.00	100.00	100.00	100.00	100.00

The following table, showing the percentage of total deaths at certain age periods for 1951, and compared with the average percentage for the 10 years 1942-1951, is interesting. It is desirable to have a low percentage in groups I, II, III and IV, and a high percentage in Group V.

Age period.			Av. % for 10 years 1942-51	% for 1951	Notes re percent- age for 1951
I.	Babies under 1	...	4.87	3.59	Below normal
II.	Infants 1-5	...	0.52	0.00	Below normal
III.	School 5-15	...	0.99	0.00	Below normal
IV.	Working, 15-65	...	29.35	26.35	Below normal
V.	Retired, 65 up	...	64.27	70.06	Above normal

The high percentage of deaths of persons above 65 years is a regular feature in Berwick, and this year is 70 per cent.

Percentage of Total Deaths above 65 Years for five-year periods during 30 years, 1918-1947

1918	1919	1920	1921	1922	Av. %
41	40	43	51	47	44.5
1923	1924	1925	1926	1927	
43	41	42	45	47	43.6
1928	1929	1930	1931	1932	
53	42	49	54	57	51.0
1933	1934	1935	1936	1937	
53	48	50	56	59	53.2
1938	1939	1940	1941	1942	
48	65	58	57	62	58.0
1943	1944	1945	1946	1947	
52	65	65	60	62	60.8
1948	1949	1950	1951		
70	69	66	70		

Causes of Death

The following table shews the classification of deaths from all causes (Registrar-General's figures) :—

	M.	F.	Totals
1 Tuberculosis respiratory	4	0	4
2 Tuberculosis, other	0	0	0
3 Syphilitic disease	0	0	0
4 Diphtheria	0	0	0
5 Whooping Cough	0	0	0
6 Meningococcal infections	0	0	0
7 Acute Poliomyelitis	0	0	0
8 Measles	0	0	0
9 Other infective and parasitic diseases ...	0	1	1
10 Malignant neoplasm, stomach	2	5	7
11 Malignant neoplasm, lung, bronchus ...	3	0	3
12 Malignant neoplasm, breast	0	2	2
13 Malignant neoplasm, uterus	0	2	2
14 Other malignant and lymphatic neoplasms	7	7	14
15 Leukaemia	1	0	1
16 Diabetes	0	1	1
17 Vascular lesions of nervous system ...	10	9	19
18 Coronary Disease, angina	12	10	22
19 Hypertension with heart disease	2	1	3
20 Other heart disease	18	16	34
21 Other circulatory disease	3	3	6
22 Influenza	1	3	4
23 Pneumonia	2	4	6
24 Bronchitis	1	2	3
25 Other diseases of respiratory system ...	1	0	1
26 Ulcer of stomach and duodenum	1	2	3
27 Gastritis, enteritis and diarrhoea	0	0	0
28 Nephritis and nephrosis	0	1	1
29 Hyperplasia of prostate	4	0	4
30 Pregnancy, childbirth, abortion	0	0	0
31 Congenital malformations	1	2	3
32 Other defined and ill-defined diseases ...	7	13	20
33 Motor vehicle accidents	1	0	1
34 All other accidents	2	0	2
35 Suicide	0	0	0
36 Homicide and operations of war	0	0	0
Totals	83	84	167

Infantile Mortality

Six deaths under 1 year belonging to the Borough were recorded, giving a rate of 25.10 per 1,000 live births as compared with 12 deaths and a rate of 48.58 in the previous year. The corresponding rate for England and Wales for 1951 is 29.6.

Causes of Death of Children under One Year

		Age	M.	F.	Cause
Reg. No.	1	6 weeks	—	1	Acute broncho-pneumonia
	13	10 weeks	—	1	Acute broncho-pneumonia
	14	6 days	1	—	Congenital heart disease
	40	16 days	1	—	Broncho-pneumonia
	56	20 minutes	—	1	Spina-bifida
	449	4 months	—	1	Meningitis

Infectious Diseases

One hundred and twenty-two cases of infectious diseases were notified as occurring amongst the civilian population. Four patients were treated at Berwick I.D. Hospital.

Diphtheria Immunisation. — The immunisation of children now comes under the direction of the County Medical Officer of Health for Northumberland, and statistics for the Borough of Berwick-upon-Tweed will appear in his Annual Report.

NOTIFIABLE INFECTIOUS DISEASES

(Other than Tuberculosis,

				Notified	Removed to Hospital	Died
Scarlet Fever	...	...	...	8	4	—
Pneumonia	...	...	...	1	—	—
Measles	...	...	...	107	—	—
Whooping Cough	...	...	...	1	—	—
Dysentery	...	...	...	5	—	—
Totals ...				122	4	—

TUBERCULOSIS

	New Cases				Total Deaths			
	Pul.		Non-pul.		Pul.		Non-pul.	
	M.	F.	M.	F.	M.	F.	M.	F.
Under 1 year	0	0	0	0	0	0	0	0
1-5 years	0	0	0	0	0	0	0	0
5-15	0	0	0	0	0	0	0	0
15-25	0	1	0	0	0	0	0	0
25-35	2	2	0	1	2	0	0	0
35-45	0	0	0	0	0	0	0	0
45-55	1	1	0	1	0	0	0	0
55-65	1	1	0	0	1	0	0	0
65 and upwards	1	0	0	0	1	0	0	0
Totals	5	5	0	2	4	0	0	0

NOTIFICATION OF NEW CASES OF TUBERCULOSIS

	Pul.			Non-Pul.			Tots.
	M	F	Tot.	M	F	Tot.	
On Register, 1st Jan., 1951 ...	25	20	45	7	6	13	58
Notif. during yr. for first time	8	2	10	6	1	7	17
Removed from Reg. ...	4	0	4	0	0	0	4
Cases on Reg., 31.12.51 ...	29	22	51	13	7	20	71

Section B.

GENERAL PROVISION OF HEALTH SERVICES

Maternity Home

During the year 1951, 130 children belonging to parents residing in the Borough were born in Castle Hills Maternity Home. This figure represents 54 per cent. of the total births allocated by the Registrar-General.

The following table shews the number of live births occurring at Castle Hills Maternity Home since the opening on 26th February, 1945.

	1945	1946	1947	1948	1949	1950	1951	Tls.
Berwick Borough ...	57	133	136	157	158	139	132	912
Alnwick District ...	5	24	24	16	28	20	33	150
Amble	—	—	—	1	—	—	—	1
Belford and District ...	7	5	16	8	13	26	14	89
Birmingham	—	—	1	—	—	—	—	1
Blyth	—	—	1	—	—	—	—	1
Glendale	6	11	20	37	49	46	36	205
Lancashire	—	—	1	—	—	—	—	1
Leeds	—	1	—	—	—	—	—	1
Morpeth	—	—	1	—	1	—	—	2
Newcastle	1	—	2	2	1	—	—	6
Norham and I. R.D.C. ...	8	21	29	34	31	30	45	198
Scottish	13	7	14	10	27	32	41	144
Sheffield	—	—	1	—	—	—	—	1
Surrey	—	1	—	—	—	—	—	1
Yorkshire	—	—	—	—	1	—	—	1
Sussex	—	—	—	—	1	—	—	1
Leicester	—	—	—	—	—	1	—	1
Manchester	—	—	—	—	—	—	1	1
Westmorland	—	—	—	—	—	—	1	1
Totals	97	203	246	265	310	294	303	1718

Infectious Diseases.—During the year 18 cases of infectious diseases were investigated; 18 houses and 4 schools were disinfected.

National Assistance Act, 1948.—In one case it was necessary to arrange for an aged person to be removed to Greenhaven because he was not receiving sufficient care and attention.

Verminous Houses.—Twenty-seven visits were made to nine houses for the treatment of vermin and domestic pests.

Section C.

Sanitary Condition of the Borough

Public supplies of water within the Borough have continued to be satisfactory in quality and quantity. The borehole at Thornton was completed and put into operation during the year. The following is a result of chemical analysis of water from this source :—

Chemical Analysis

Appearance—Bright and very few mineral particles.

Turbidity—Less than 3.

Colour—Nil.

Odour—Nil.

pH value—6.8.

Free carbon dioxide—33.

Electric conductivity—285.

	Parts per million
Total solids	190
Chlorine present as chloride	24
Alkalinity as calcium carbonate	90
Total hardness	125
Carbonate	90
Non-carbonate	35
Nitrate nitrogen	2.4
Nitrite nitrogen less than	0.01
Ammoniacal nitrogen	0.15
Oxygen absorbed	0.00
Albuminoid nitrogen	0.000
Residual chlorine	0.000
Iron	0.06
Manganese	0.03
Other metals	Absent

One private piped supply of water, known as the “North Course Supply,” was proved to be intermittently polluted by surface drainage. Thirty samples were taken from this supply and from an alternative spring supply which proved satisfactory and which was substituted for the original. The analyst’s final report on the spring supply is as follows :—

Water Report.—Date received, 4.10.51 Sample marked No. 133 from earthenware pipe No. 1 West of Loughend Farm, Berwick-upon-Tweed, 3.10.51.

Chemical Results :

	Parts per 100,000
Total solids dried at 180 deg. C.	39.0
Chlorine as chlorides	3.02
Free ammonia	0.007
Albuminoid ammonia	0.006
Nitrogen as nitrates	0.08
Oxygen absorbed (4 hours at 80 deg. F.)	0.065
Total hardness	14.4
Permanent hardness	None
Temporary hardness	14.4
Lead and copper	None
Iron	0.01
Appearance and colour (Hazen degrees 5)	
	Exceedingly pale yellow and clear
Smell and Taste	Satisfactory
Microscopical examination of deposit	Satisfactory
pH value	7.0

Bacteriological Results :

Number of bacteria per millilitre (ml).

Visible on agar after 48 hours incubation at 37 deg. C ... 67

Visible on gelatine after 72 hours incubation at 21 deg. C 95

Coliform organisms as shown by the production of acid and gas in MacConkey's Bile Salt Lactose broth after 48 hours incubation at 37 deg. C.:—

0.1 ml. of sample———. 1.0 ml. of sample—absent.

10 mls. of sample—positive. 100 mls. of sample—positive.

Confirmatory tests for Bacillus Coli. on 10 mls.

Indol production—positive. Methyl Red (M.R.)—positive. Voges Proskauer (V.P.)—negative. Citrate test—positive.

Report :—

This sample of water contains coliform organisms in a probable concentration of 5 per 100 millilitres, which prove to be "Intermediate, type 2," whose normal habitat is soil.

The chemical analysis does not give indications of pollution, and, since the coliform concentration is not excessively high and the type of organism is not faecal, but is that normally present in soil, I am of opinion that the water could serve as a supply to farms, provided it retains its present purity.

Nevertheless, if it is possible to trace the water to its source, it would be well to do so. The water contains excess alkalinity to the extent of 7 parts per 100,000 of sodium carbonate; this fact and other analytical figures prove that it is from an underground source and is not merely surface water.

No new water mains were laid during 1951, but piped supplies were introduced into 87 houses previously supplied by stand-pipes in yards, making the position now as follows :—

Supplied from public water main :

	No. of houses	Population
(a) Direct to the house ...	3,330	10,423
(b) by means of stand-pipe ...	628	1,966

Sewerage.—To drain the new agricultural houses at Hope Nursery, 705 yards of 6-inch sewer were laid.

Rodent Control.—Only at one farm was a major infestation discovered, and this was effectively treated by the Department's rodent operative. Certain areas in the Borough where re-infestation is always likely to occur are surveyed regularly, and block survey is systematically carried out.

The following summary shows the work undertaken where infestations of rats or mice occurred :—

Total number of visits to all premises where treatment was carried out	309
Number of private premises treated	23
Number of business premises treated	24
Number of Corporation premises treated	8
Number of dead rodents found after treatment (all premises)	465

Two sewer treatments were carried out during 1951. The results are summarised below.

Total number of manholes in the Borough	409
Number of manholes test baited	76
Number of manholes pre-baited and poisoned	50
Number of manholes where takes of poison were recorded	46

It was found necessary to send informal notices before rat proofing was done in two cases.

Factories Act, 1937.

There are 122 factories registered in the Borough under the above-mentioned Act. Details of these are as follows :—

Aerated Water Works	...	...	...	...	...	1
Bakeries	...	...	...	...	...	9
Beer Bottling Works	...	...	...	...	...	1
Blacksmith's Shops	...	...	...	...	...	1
Boat Builder's Yards	...	...	...	...	...	2
Boot Repairs Works	...	...	...	...	...	4
Bread Wrapping Department	...	...	...	...	...	1
Butcher's Shops	...	...	...	...	...	12
Cabinet and Upholstery Works	...	...	...	...	...	6
Cattle Cake Works	...	...	...	...	...	1
Chemical Manufacturing Works	...	...	...	...	...	2
Chemical Manure Works	...	...	...	...	...	3
Cycle Repair Shops	...	...	...	...	...	2
Dressmaking Shops	...	...	...	...	...	4
Electrical Repair Shops	...	...	...	...	...	3
Engineering Works	...	...	...	...	...	3
Fish Curing Premises	...	...	...	...	...	6
Gas Works	...	...	...	...	...	1
Grain Crushing Premises	...	...	...	...	...	4
Iron Foundry	...	...	...	...	...	1
Knitwear Manufacturing Premises	...	...	...	...	...	1
Laundries	...	...	...	...	...	2
Locomotive Repair Shed	...	...	...	...	...	1
Malt House	...	...	...	...	...	1
Mill (Flour)	...	...	...	...	...	1
Monumental Mason's Yard	...	...	...	...	...	1
Motor Vehicle Repair Shops	...	...	...	...	...	11
Plumbers	...	...	...	...	...	7
Potato Crisp Manufacturer	...	...	...	...	...	1
Printers	...	...	...	...	...	5
Ropery	...	...	...	...	...	1
Sail and Tent-making Premises	...	...	...	...	...	1
Sawmills and Joinery Shops	...	...	...	...	...	12
Skinners	...	...	...	...	...	1
Spade and Shovel Works	...	...	...	...	...	1
Stevedores	...	...	...	...	...	1
Sweet Manufacturing Premises	...	...	...	...	...	2
Tailor's Shops	...	...	...	...	...	2
Tweed Weaving Premises	...	...	...	...	...	1
Weighing Machine Repairs	...	...	...	...	...	1
Wine and Spirits Bottling Premises	...	...	...	...	...	1

Eighty-nine inspections were made to factories, and fourteen written notices sent, regarding contraventions of the Act.

The following summary shows the types of contraventions dealt with :—

Sanitary Conveniences—

(a) Insufficient	...	...	...	...	1
(b) Unsuitable or defective	...	...	...	...	11
(c) Not separate for sexes	...	...	...	...	1
Other offences against the Act	...	...	...	...	2

Having regard to works carried forward from 1950, sixteen contraventions were remedied.

Two certificates for adequate means of escape in case of fire were issued.

Complaints and Nuisances.

Number of complaints received	...	...	...	105
Number of complaints found on inspection to be unjustified	...	...	...	1
Number of visits following complaints and to nuisances	...	...	...	683
Number and variety of nuisances dealt with :—				
Accumulations	...	...	...	10
Ceilings collapsed and defective	...	...	...	5
Chimneys defective	...	...	...	9
Dampness	...	...	...	14
Drains defective or choked	...	...	...	6
Floors defective	...	...	...	7
Houses dirty	...	...	...	3
Houses verminous or pest infested	...	...	...	7
Houses—general defects	...	...	...	24
Mice infestations	...	...	...	13
Pail closets defective	...	...	...	2
Roofs leaking	...	...	...	23
Rat infestations	...	...	...	7
Spouting defective	...	...	...	18
Water closets defective	...	...	...	3
Miscellaneous nuisances	...	...	...	13

Tabular Statement of Visits, Inspections, etc., by Sanitary Inspector and Staff

Visits and Inspections to :—

Dairies	...	...	...	...	...	...	...	23
Ministry of Food Slaughterhouse	...	...	...	...	...	...	...	367
Factories	...	...	...	...	...	...	...	89
Ships	...	...	...	...	...	...	...	4
Infectious Disease	...	...	...	...	...	...	...	22
Houses	...	...	...	...	...	...	...	501
Yards' Courts	...	...	...	...	...	...	...	3
Shop and Business Premises	...	...	...	...	...	...	...	98
Tents, Vans and Sheds	...	...	...	...	...	...	...	21
Rat-infested Premises	...	...	...	...	...	...	...	309
Verminous and Pest-infested Premises	...	...	...	...	...	...	...	27
Ice-Cream Premises	...	...	...	...	...	...	...	41
Drainage	...	...	...	...	...	...	...	24
Water Supplies	...	...	...	...	...	...	...	169
Fried Fish Shops	...	...	...	...	...	...	...	20
Schools	...	...	...	...	...	...	...	3
Civil Defence	...	...	...	...	...	...	...	5
Fire Escapes from Hotels	...	...	...	...	...	...	...	3
Food Traders' Guild of Hygiene	...	...	...	...	...	...	...	9
Complaints and Nuisances	...	...	...	...	...	...	...	683
Poliomyelitis Research	...	...	...	...	...	...	...	60

Notices issued :—

Informal	...	...	...	...	...	...	...	320
Statutory	...	...	...	...	...	...	...	28

Notices complied with :—

Informal	...	...	...	...	...	...	...	291
Statutory	...	...	...	...	...	...	...	12

The Statutory Notices referred principally to water supplies, sanitary accommodation, choked or defective drains, means of escape in fire, and contraventions of the Shops and Factories Acts.

Section D. — Housing.

Survey of dwelling houses continued during the year, 501 visits being made concerning this important section of the department's work. Although owners are slow to take advantage of the grants available under the 1949 Housing Act, considerable improvement was carried out to dwellings, as the following table shows :—

Number of water supplies introduced into houses ...	87
Number of houses in which hot water systems were introduced	31
Number of houses in which baths were installed ...	14
Number of houses provided with separate W.C. accommodation	13
Number of houses where pail closets or privies have been abolished	9

The above figures refer, of course, to existing houses and not new buildings.

At the close of the year under review the number of families sharing sanitary accommodation was 884, the incidence being as follows :—

255 water closets shared by 2 families	
69	3
26	4
9	5
3	6

In addition there were 93 families using pail closets or privy middens and 15 using chemical closets.

The work of closing and demolishing unfit houses continued, and by the end of the year four Demolition Orders and 15 Closing Orders had been made concerning houses of the following sizes :—

Demolition Orders.—1 x 4 apt. house, 1 x 3 apt. house, and 2 x 2 apt. houses.

Closing Orders.— 1 x 7 apt. house, 1 x 4 apt. house, 3 x 3 apt. houses, 5 x 2 apt. houses, and 5 x 1 apt. houses.

One undertaking was accepted in respect of 1 x 2 apt. house considered for demolition.

Court proceedings were taken against an owner who permitted to be used for human habitation a part of a house subject to a Closing Order. A fine of £2 was imposed.

Twenty-one visits were made to moveable dwellings, where conditions were generally found satisfactory.

Houses Erected 1921-51

		By Private Enterprise	By Local Authority	Prefabricated Tem. Houses	Total
1921	...	1	22		23
22	...	—	—		—
23	...	—	24		24
24	...	4	32		36
25	...	20	72		92
26	...	12	26		38
27	...	1	97		98
28	...	25	51		76
29	...	4	—		4
30	...	7	16		23
31	...	2	—		2
32	...	—	60		60
33	...	20	8		28
34	...	32	—		32
35	...	42	24		66
36	...	58	76		134
37	...	33	100		133
38	...	37	178		215
39	...	25	30		55
40	...	4	—		4
41-45	...	—	—		—
46	...	1	—	50	51
47	...	14	64	—	78
48	...	1	142	—	143
49	...	11	68	—	79
50	...	12	74	—	86
51	...	20	48	—	68
Totals	...	386	1212	50	1648

Section E.

Inspection of Food and Food Premises

The routine work of meat inspection at the Ministry of Food Slaughterhouse necessitated 367 visits, while another 286 inspections were made to premises where food is stored or sold. A total weight of 26 tons 6 cwts. 1 qtr. 22 lbs. of food was condemned as being unfit for human consumption, the bulk of this being dealt with in the Slaughterhouse. Two cows were slaughtered under the Tuberculosis Order, and three slaughtermen's licences were renewed and three new licences granted.

Informal notices under the Food and Drugs Act, 1938, numbered 89.

The following table gives some idea of the major items of work carried out in food premises during the year :—

Water supplies introduced	...	...	...	3
Hot water installations provided	...	...	...	18
Redecoration and cleansing premises	...	...	...	12
Structural repairs carried out	...	...	...	15
Equipment repaired	...	...	...	2
Sanitary accommodation provided	...	...	...	2
Sanitary accommodation repaired	...	...	...	3

An insulated container for the meat transport van replaced the less satisfactory method previously used.

Meat and Other Foods Condemned

		Surrendered	Legal Proceedings
Beef (Home Killed)	Stones	3107	Nil
Beef (Imported)	"	—	"
Mutton (Home Killed)	"	953	"
Mutton (Imported)	"	—	"
Pork	"	44	"
Game	lbs.	—	"
Fish	"	28	"
Fruit	"	—	"
Canned Goods	Tins	891	"
Bacon and Ham	lbs.	179½	"
Cheese	"	53	"
Butter	"	—	"
Eggs	Doz.	6	"
Other Foods :—			
Ground Rice	lbs.	140	"
Onions	"	56	"
Sugar	cwts	16	"

CARCASSES INSPECTED AND CONDEMNED

	Cattle, excluding			Sheep and			
	Cows	Cows	Calves	Lambs	Pigs		Total
Number killed (if known) ...	939	185	266	3,553	201		5,144
No. inspected ...	939	185	266	3,553	201		5,144

All diseases except tuberculosis—

	Cattle	Cows	Calves	Sheep	Pigs		Total
Whole carcasses condemned ...	3	21	3	199	4		230
Carcases of which some part or organ was condemned ...	478	113	—	514	26		1,131
Percentage of the number in- spected affected with disease other than tuberculosis ...	51.22	72.43	1.12	20.006	14.92		—

Tuberculosis only—

	Cattle	Cows	Calves	Sheep	Pigs		Total
Whole carcasses condemned ...	3	17	—	—	3		23
Carcases of which some part or organ was condemned ...	15	10	—	—	5		30
Percentage of the number in- spected affected with tuber- culosis ...	1.91	14.59	—	—	3.98		—

MEAT CONDEMNED (HOME KILLED)

	Whole Carcases including Organs	Part Carcases	Organs other than Ox Livers	Ox Livers		Tot. Wt. (lbs.)
				Wholly	Partly	
Bullocks	6	47 (3517 lbs.)	246	616	251	9307
Cows	33		130			
Calves	3	—	—			
Sheep	199	36 (636 lbs.)	514			
Pigs	7	12 (199 lbs.)	5			
	253	95 (4352 lbs.)	895	616	251	9307

Ice-Cream (Heat Treatment, etc.) Regulations.

To ice-cream factories and premises where this commodity is sold, 41 visits were made and 49 samples procured. Eight informal notices were sent. The number of registered premises in the Borough now totals 27.

Milk Supply.

Visits to the five premises in the Borough supervised by the Public Health Department numbered 23, and generally the regulations were being well observed. Four premises are licensed for the sale of designated milk.

Sampling.

Of 64 samples of milk sent to the Public Health Laboratory for examination, 50 satisfied the methylene blue test, 10 failed, and in four the results were inconclusive.

Eleven samples sent for examination for *B. tuberculosis* were returned as negative.

Twenty-seven milk bottles gave results of examination for cleanliness as follows:—Satisfactory, 19; fairly satisfactory, 1; unsatisfactory, 7.

Four churn rinses were returned as satisfactory.

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